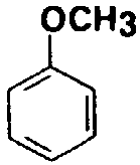


Ether

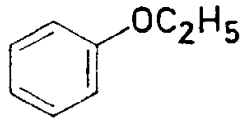
1 Mono- und Polyether ohne weitere funktionelle Gruppen

Bei unsymmetrischen Ethern wird der Kohlenwasserstoff mit der größeren Anzahl an C-Atomen als Verbindungsstamm bezeichnet.

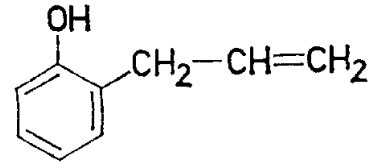
Methoxymethan	$\text{CH}_3\text{-O-CH}_3$	<i>Dimethyläther</i>	F.-138°C, Kp.-25°C
Methoxyethan	$\text{CH}_3\text{-O-CH}_2\text{-CH}_3$	<i>Äthylmethyläther</i>	Kp.7,6°C
Ethoxyethan	$\text{CH}_3\text{-CH}_2\text{-O-CH}_2\text{-CH}_3$	<i>Diäthyläther, Ether</i>	F.-116°C, Kp.34,6°C, D.0,736
Ethoxypropan	$\text{CH}_3\text{-CH}_2\text{-O-(CH}_2\text{)}_2\text{-CH}_3$	<i>Äthyl-n-propyläther</i>	Kp.63,8°C, D.0,733
Propoxypropan	$\text{CH}_3\text{-(CH}_2\text{)}_2\text{-O-(CH}_2\text{)}_2\text{-CH}_3$	<i>Di-n-propyläther</i>	F.-122°C, Kp.90,6°C, D.0,736
Methoxy-2-hydroxy-ethan	$\text{CH}_2\text{(OH)-CH}_2\text{-O-CH}_3$	<i>Glycolmonomethyläther</i>	
Methylethoxy-propan	$\text{CH(CH}_3\text{)}_2\text{-O-(CH}_2\text{)}_2\text{-CH}_3$	<i>iso-Propyl-n-propyläther</i>	
Methylethoxy-methylethan	$\text{CH(CH}_3\text{)}_2\text{-O-CH(CH}_3\text{)}_2$	<i>Di-iso-propyläther</i>	F.-85°C, Kp.68°C, D. 0,723
Methoxyethen	$\text{CH}_3\text{-O-CH=CH}_2$	<i>Methylvinyläther</i>	F.-123°C, Kp.5°C
Ethoxyethen	$\text{CH}_3\text{-CH}_2\text{-O-CH=CH}_2$	<i>Ethylvinyläther</i>	F.-115°C, Kp.36°C, D.0,753
1,4-Diethenoxy-butan	$\text{CH}_2\text{=CH-O-(CH}_2\text{)}_4\text{-O-CH=CH}_2$	<i>1,4-Butandioldivinyläther</i>	D.0,897
Methoxy-(1,1-dimethyl)-ethan	$\text{CH}_3\text{-C(CH}_3\text{)}_2\text{-O-CH}_3$	<i>tert-Butyl-methyläther</i>	F.-108°C, Kp.55°C, D.0,740
Ethenoxybutan	$\text{CH}_3\text{-(CH}_2\text{)}_3\text{-O-CH=CH}_2$	<i>Butyl-vinyl-äther</i>	F.-113°C, Kp.94°C, D.0,778
Butyloxybutan	$\text{CH}_3\text{-(CH}_2\text{)}_3\text{-O-(CH}_2\text{)}_3\text{-CH}_3$	<i>Di-n-butyläther</i>	F.-95°C, Kp.141°C, D.0,768
2-Methylpropoxy-2-methylpropan	$\text{CH}_3\text{-CH(CH}_3\text{)-CH}_2\text{-O-CH}_2\text{-CH(CH}_3\text{)-CH}_3$	<i>Di-iso-butyläther</i>	Kp.124°C
Pentoxypentan	$\text{CH}_3\text{-(CH}_2\text{)}_4\text{-O-(CH}_2\text{)}_4\text{-CH}_3$	<i>Di-n-amyläther</i>	F.-69°C, Kp.187°C, D.0,784
3-Methylbutoxy-3-methylbutan	$\text{CH}_3\text{-CH(CH}_3\text{)-(CH}_2\text{)}_2\text{-O-(CH}_2\text{)}_2\text{-CH(CH}_3\text{)-CH}_3$	<i>Diisoamyläther</i>	Kp.173°C, D.0,777
Hexoxyhexan	$\text{CH}_3\text{-(CH}_2\text{)}_5\text{-O-(CH}_2\text{)}_5\text{-CH}_3$	<i>Dihexyläther</i>	F.-43°C, Kp.227°C, D.0,795
Ethenoxyethen	$\text{CH}_2\text{=CH-O-CH=CH}_2$	<i>Divinyläther</i>	F.-101°C, Kp.28,3°C
Prop-2-enoxyprop-2-en	$\text{CH}_2\text{=CH-CH}_2\text{-O-CH}_2\text{-CH=CH}_2$	<i>Diallyläther</i>	Kp.94°C
1-Methoxy-2,2-dimethylpropan	$\text{CH}_3\text{-C(CH}_3\text{)}_2\text{-CH}_2\text{-O-CH}_3$	<i>Methylneopentyläther</i>	
1,1-Diethoxypropan	$\begin{array}{c} \text{CH}_3\text{-CH}_2\text{-O-CH-O-CH}_2\text{-CH}_3 \\ \\ \text{CH}_2\text{-CH}_3 \end{array}$		



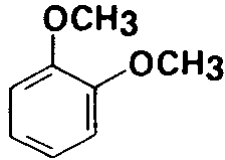
Methoxybenzen
Anisol
F.-37,3°C, Kp.154°C



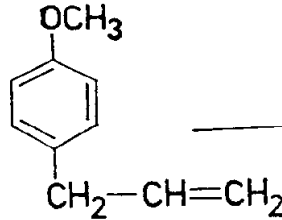
Ethoxybenzen
Phenetol
F.-30°C, Kp.172°C



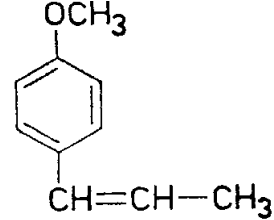
Prop-2-enoxybenzen
Phenylallylether



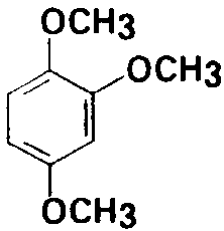
1,2-Dimethoxybenzen
Veratrol
F.22,5°C, Kp.207°C



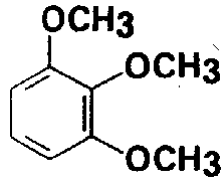
4-Methoxy-allylbenzen
Estragol



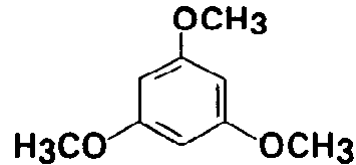
4-Methoxy-propenylbenzen
Anethol
F.~22°C



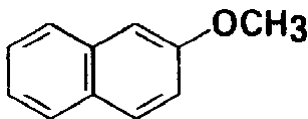
1,2,4-Trimethoxybenzen
Kp.247°C, D.1,130



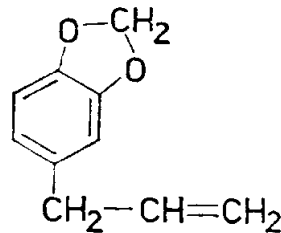
1,2,3-Trimethoxybenzen
F.44°C, Kp.241°C



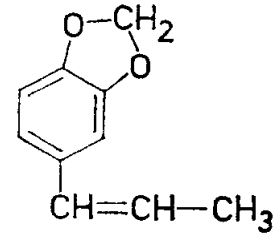
1,3,5-Trimethoxybenzen
Phloroglucintrimethyläther
F.51°C, Kp.255°C



2-Methoxynaphthalen
Nerolin
F.72°C, Kp.274°C

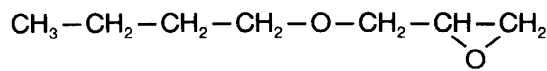


4-Allyl-1,2-methylenedioxy-benzen
Safrol
Kp.232°C



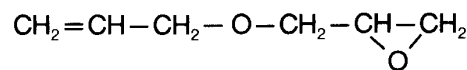
4-Propenyl-1,2-methylenedioxy-benzen
Isosafrol

1-Butoxy-2,3-epoxypropan
n-Butylglycidyläther



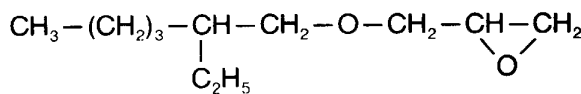
Kp.170°C, D.0,95

1-Prop-2-enyl-2,3-epoxypropan
Allylglycidyläther



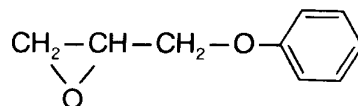
Kp.150°C, D.0,97

2-Ethylhexoxy-2,3-epoxypropan
2-Äthylhexylglycidyläther

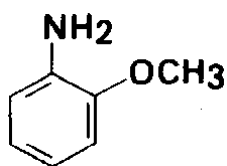


D.0,99

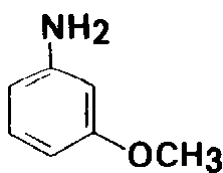
3-Phenoxy-1,2-epoxypropan
Phenylglycidyläther



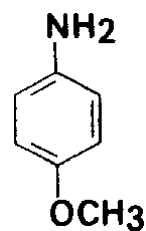
Kp.244°C, D.1,109



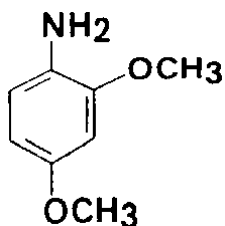
2-Methoxyaminobenzen
o-Anisidin
F.5°C, Kp.225°C, D.1,092



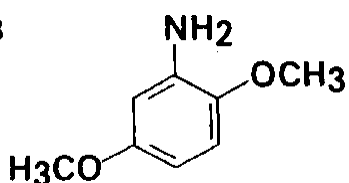
3-Methoxyaminobenzen
m-Anisidin
F.-1°C, Kp.251°C, D.1,102



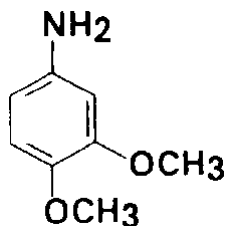
4-Methoxyaminobenzen
p-Anisidin
F.56°C, Kp.243°C



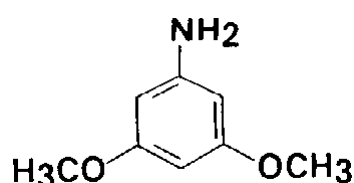
2,4-Dimethoxy-
aminobenzen
4-Aminoresorcin-
dimethyläther
F.33°C



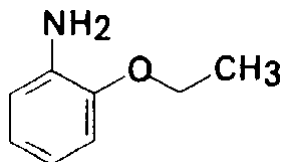
2,5-Dimethoxy-
aminobenzen
Aminohydrochinon-
dimethyläther
F.78°C



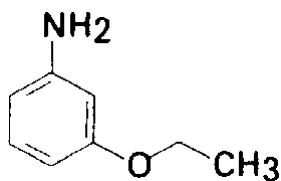
3,4-Dimethoxy-
aminobenzen
4-Aminoveratrol
F.86°C



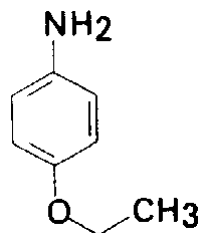
3,5-Dimethoxy-
aminobenzen
5-Aminoresorcin-
dimethyläther
F.52°C



2-Ethoxyaminobenzen
o-Phenetidin
F.-4°C, Kp.233°C, D.1,049



3-Ethoxyaminobenzen
m-Phenetidin
D.1,066



4-Ethoxyaminobenzen
p-Phenetidin
F.3°C, Kp.254°C, D.1,061

3 Halogenether

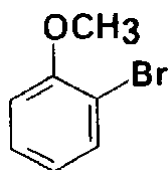
1-Ethoxy-2-chlorethan $\text{CH}_3\text{-CH}_2\text{-O-CH}_2\text{-CH}_2\text{Cl}$

1-Chlorethoxymethan $\text{CH}_3\text{-CHCl-O-CH}_3$

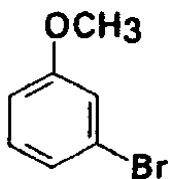
Chlormethoxymethan $\text{CH}_2\text{Cl-O-CH}_3$ *Chlordimethylether* F.-103°C, Kp.59°C, D.1,070

Brommethoxybrommethan $\text{CH}_2\text{Br-O-CH}_2\text{Br}$ *Dibromdimethylether* F.-34°C, Kp.154°C, D.2,203

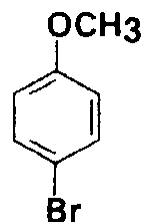
2-Chlorethoxy-2-chlorethan $\text{CH}_2\text{Cl-CH}_2\text{-O-CH}_2\text{-CH}_2\text{Cl}$ *Dichlordiäthyläther* F.-50°C, Kp.177°C, D.1,218



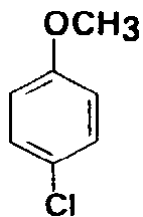
1-Brom-2-methoxybenzen
2-Bromanisol
F.2°C, Kp.223°C, D.1,515



1-Brom-3-methoxybenzen
3-Bromanisol
F.2°C, Kp.223°C, D.1,491



1-Brom-4-methoxybenzen
4-Bromanisol
F.10°C, Kp.223°C, D.1,496

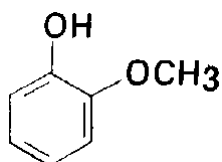


1-Chlor-4-methoxybenzen
4-Chloranisol
Kp.201°C, D.1,172

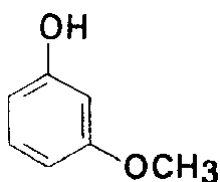
4 Hydroxyether

4.1 Hydroxymonoether

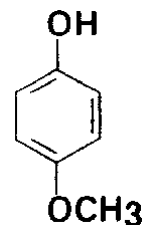
Hydroxyethoxyhydroxyethan	$\text{HO-CH}_2\text{-CH}_2\text{-O-CH}_2\text{-CH}_2\text{-OH}$	<i>Diäthylenglycol</i>	F.-6°C, Kp.244°C, D.~1,12
Methoxyethanol	$\text{CH}_3\text{-O-CH}_2\text{-CH}_2\text{-OH}$	<i>Äthylenglycolmonomethyläther</i>	F.-85°C, Kp.124°C, D.0,965
Ethoxyethanol	$\text{CH}_3\text{-CH}_2\text{-O-CH}_2\text{-CH}_2\text{-OH}$	<i>Äthylenglycolmonoäthyläther</i>	F.-100°C, Kp.135°C, D.0,930
Propoxyethanol	$\text{CH}_3\text{-(CH}_2\text{)}_2\text{-O-CH}_2\text{-CH}_2\text{-OH}$	<i>Äthylenglycolmonopropyläther</i>	
Butoxyethanol	$\text{CH}_3\text{-(CH}_2\text{)}_3\text{-O-CH}_2\text{-CH}_2\text{-OH}$	<i>Äthylenglycolmonobutyläther</i>	F.-70°C, Kp.171°C, D.~0,90
Prop-2-enoxypropan-2,3-diol	$\text{CH}_2\text{OH-CH(OH)-CH}_2\text{-O-CH}_2\text{-CH=CH}_2$	<i>Glycerin-allyläther</i>	D.~1,07



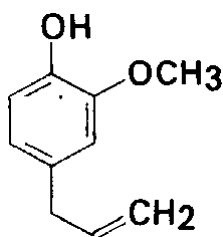
2-Methoxyhydroxybenzen
Guajacol



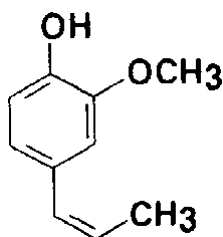
3-Methoxyhydroxybenzen
Resorcinmonomethyläther



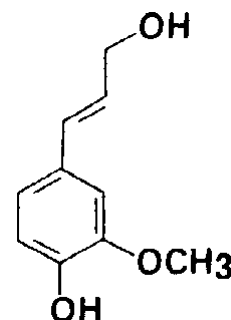
4-Methoxyhydroxybenzen
Hydrochinonmonomethyläther



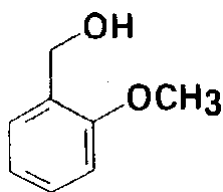
4-Allyl-2-methoxy-hydroxybenzen
Eugenol



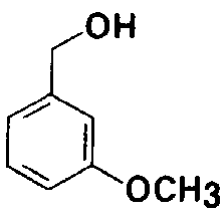
4-Propenyl-2-methoxy-hydroxybenzen
Isoeugenol



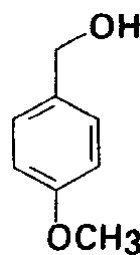
3-(4-Hydroxy-3-methoxyphenyl)-prop-2-en-1-ol
Coniferylalkohol



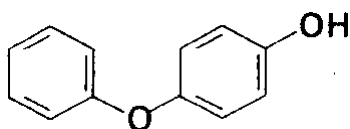
2-Methoxybenzylalkohol
o-Anisalkohol
Kp.249°C, D.1,122



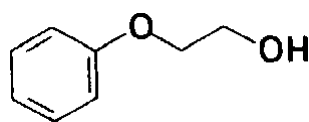
3-Methoxybenzylalkohol
m-Anisalkohol
D.1,114



4-Methoxybenzylalkohol
p-Anisalkohol
F.25°C, Kp.259°C, D.~1,11



4-Phenoxyphenol
Hydrochinonmonophenyläther
F.82°C



2-Phenoxyethanol
Äthylenglycolmonophenyläther
F.12°C, Kp.245°C, D.1,107, LW.3

4.2. Glycolether

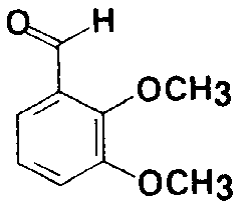
1,3-Diethoxy-2-propanol	$\text{CH}_3\text{-CH}_2\text{-O-CH}_2\text{-CH(OH)-CH}_2\text{-O-CH}_2\text{-CH}_3$	<i>Glycerin-α,γ-diäthyläther</i>
Bis(2-methoxyethyl)ether	$(\text{H}_3\text{C-O-CH}_2\text{-CH}_2\text{-})_2\text{O}$	<i>Diäthylenglycoldimethyläther</i> F.-64°C, Kp.160°C, D.~0,94
Bis(2-ethoxyethyl)ether	$(\text{H}_3\text{C-CH}_2\text{-O-CH}_2\text{-CH}_2\text{-})_2\text{O}$	<i>Diäthylenglycoldiäthyläther</i> F.-44°C, Kp.188°C, D.~0,91
Bis(2-propoxyethyl)ether	$(\text{H}_3\text{C-(CH}_2)_2\text{-O-CH}_2\text{-CH}_2\text{-})_2\text{O}$	<i>Diäthylenglycoldipropyläther</i>
Bis(2-butoxyethyl)ether	$(\text{H}_3\text{C-(CH}_2)_3\text{-O-CH}_2\text{-CH}_2\text{-})_2\text{O}$	<i>Diäthylenglycoldibutyläther</i> F.-60°C, Kp.254°C, D.0,883, LW.3
Hydroxyethoxymethoxyethan	$\text{HO-CH}_2\text{-CH}_2\text{-O-CH}_2\text{-CH}_2\text{-O-CH}_3$	<i>Diäthylenglycolmonomethyläther</i> F.-65°C, Kp.194°C, D.1,021
Hydroxyethoxyethoxyethan	$\text{HO-CH}_2\text{-CH}_2\text{-O-CH}_2\text{-CH}_2\text{-O-CH}_2\text{-CH}_3$	<i>Diäthylenglycolmonoäthyläther</i> F.-80°C, Kp.202°C, D.0,990
Hydroxyethoxypropoxyethan	$\text{HO-CH}_2\text{-CH}_2\text{-O-CH}_2\text{-CH}_2\text{-O-(CH}_2)_2\text{-CH}_3$	<i>Diäthylenglycolmonopropyläther</i>
Hydroxyethoxybutoxyethan	$\text{HO-CH}_2\text{-CH}_2\text{-O-CH}_2\text{-CH}_2\text{-O-(CH}_2)_3\text{-CH}_3$	<i>Diäthylenglycolmonobutyläther</i> F.-68°C, Kp.230°C, D.0,953
Hydroxyethoxyhexoxyethan	$\text{HO-CH}_2\text{-CH}_2\text{-O-CH}_2\text{-CH}_2\text{-O-(CH}_2)_5\text{-CH}_3$	<i>Diäthylenglycolmono-n-hexyläther</i> F.-40°C, D.0,933
1,2-Dimethoxyethan	$\text{CH}_3\text{-O-CH}_2\text{-CH}_2\text{-O-CH}_3$	<i>Äthylenglycoldimethyläther</i> F.-58°C, Kp.84°C, D.0,867
1,2-Diethoxyethan	$\text{CH}_3\text{-CH}_2\text{-O-CH}_2\text{-CH}_2\text{-O-CH}_2\text{-CH}_3$	<i>Äthylenglycoldiäthyläther</i> F.-74°C, Kp.121°C, D.0,842, LW.34
1,2-Dihydroxyethoxy-ethan	$\text{HO-CH}_2\text{-CH}_2\text{-O-CH}_2\text{-CH}_2\text{-O-CH}_2\text{-CH}_2\text{-OH}$	<i>Triäthylenglycol</i> F.-7°C, Kp.287°C, D.1,123
2,5,8-Trioxaundecan	$\text{CH}_3\text{-O-CH}_2\text{-CH}_2\text{-O-CH}_2\text{-CH}_2\text{-O-(CH}_2)_2\text{-CH}_3$	<i>Triäthylenglycoldimethyläther</i> F.-45°C, Kp.216°C, D.0,985
Bis[2-(2-hydroxyethoxy)ethyl]ether	$\text{HO-CH}_2\text{-CH}_2\text{-O-CH}_2\text{-CH}_2\text{-O-CH}_2\text{-CH}_2\text{-O-CH}_2\text{-CH}_2\text{-OH}$	<i>Tetraäthylenglycol</i> F.-5°C, Kp.307°C, D.1,123
1,2-Bis[2-(2-hydroxyethoxy)ethoxy]ethan	$\text{HO-CH}_2\text{-CH}_2\text{-O-CH}_2\text{-CH}_2\text{-O-CH}_2\text{-CH}_2\text{-O-CH}_2\text{-CH}_2\text{-O-CH}_2\text{-CH}_2\text{-O-CH}_2\text{-CH}_2\text{-OH}$	
1,1-Diethoxyethan	$\text{CH}_3\text{-CH}_2\text{-O-CH(CH}_3\text{)-O-CH}_2\text{-CH}_3$	

5 Ether mit Carbonylfunktionen

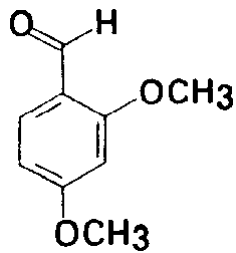
Methoxy-propan-2-on $\text{CH}_3\text{-O-CH}_2\text{-CO-CH}_3$

Methoxyaceton

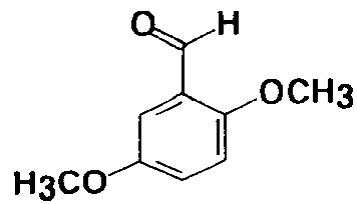
Kp.114°C, D.0,948



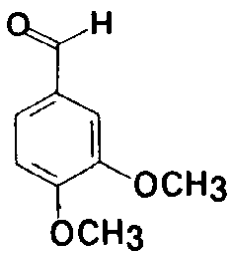
2,3-Dimethoxybenzaldehyd
F.52°C



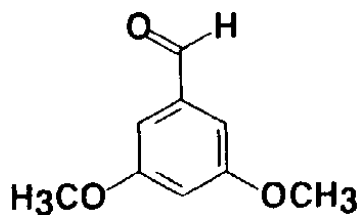
2,4-Dimethoxybenzaldehyd
F.68°C



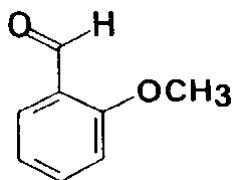
2,5-Dimethoxybenzaldehyd
F.48°C



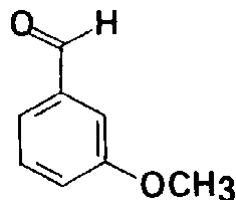
3,4-Dimethoxybenzaldehyd
F.42°C



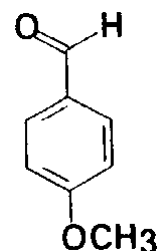
3,5-Dimethoxybenzaldehyd
F.45°C



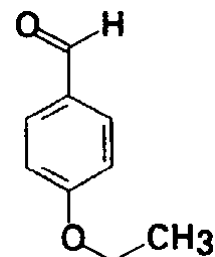
2-Methoxybenzaldehyd
o-Anisaldehyd
F.35°C, Kp.236°C



3-Methoxybenzaldehyd
m-Anisaldehyd
D.1,117



4-Methoxybenzaldehyd
p-Anisaldehyd
F.1°C, Kp.248°C, D.1,122, LW.3,3



4-Ethoxybenzaldehyd
F.14°C, Kp.255°C, D.1,082

6 Ether mit Carboxylfunktionen

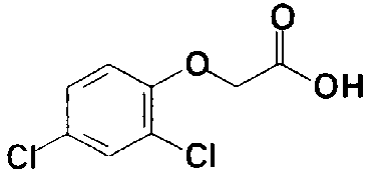
Ethoxyethansäure $\text{CH}_3\text{-CH}_2\text{-O-CH}_2\text{-COOH}$

D.1,100

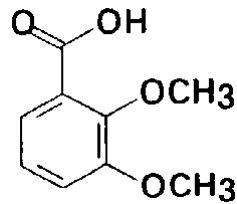
2,2'-Oxydiethansäure $\text{HOOC-CH}_2\text{-O-CH}_2\text{-COOH}$

Diglycolsäure

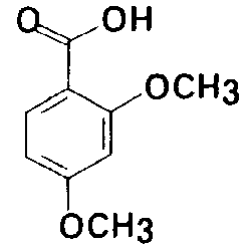
F.140°C, Z.360°C



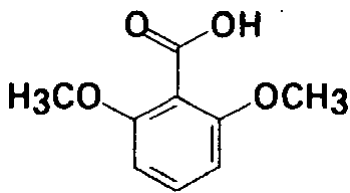
(2,4-Dichlorphenoxy)-ethansäure
2,4-D
F.135°C, LW.0,5



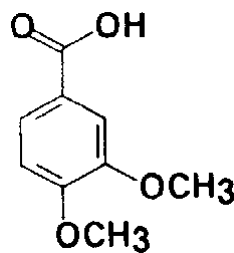
2,3-Dimethoxybenzoessäure
F.122°C



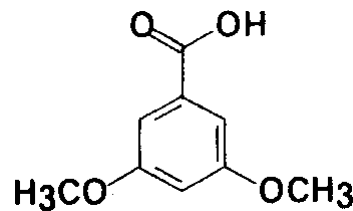
2,4-Dimethoxybenzoessäure
F.108°C



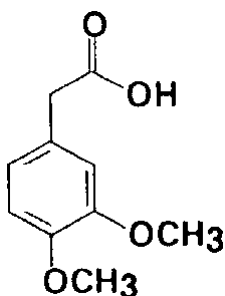
2,6-Dimethoxybenzoessäure
F.186°C



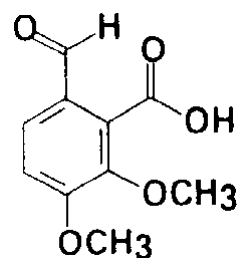
3,4-Dimethoxybenzoessäure
Veratrinsäure
F.177°C



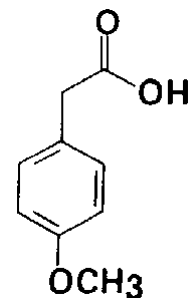
3,5-Dimethoxybenzoessäure
F.180°C



3,4-Dimethoxyphenylethansäure
Homoveratrumsäure
F.94°C

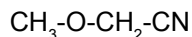


3,4-Dimethoxy-1,2-dicarbonsäure
Opiansäure
F.146°C, LW.2,5

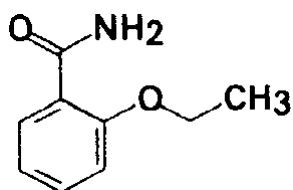


4-Methoxyphenylethansäure
Homo-p-anissäure
F.84°C, LW.6

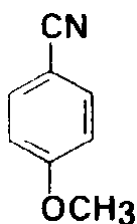
Methoxyacetonitril

*Methoxymethylcyanid*

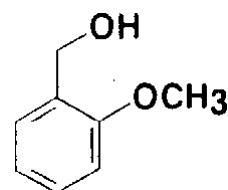
D.0,948



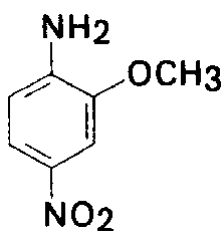
2-Ethoxybenzamid
O-Äthylsalicylsäureamid
F.130°C



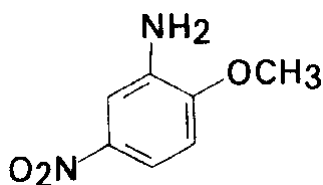
4-Methoxybenzonitril
p-Anissäurenitril
F.58°C, Kp.240°C



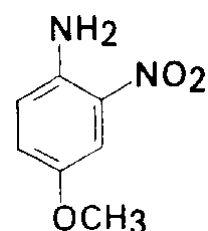
4-Methoxybenzoesäurechlorid
p-Anisoylchlorid
F.24°C, Z.262°C, D.1,260



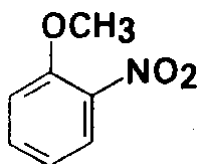
2-Methoxy-4-nitro-1-aminobenzen
F.140°C



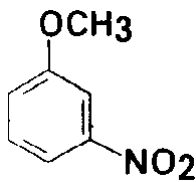
2-Methoxy-5-nitro-1-aminobenzen
F.115°C



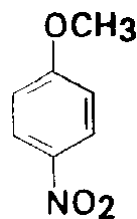
4-Methoxy-2-nitro-1-aminobenzen
F.123°C



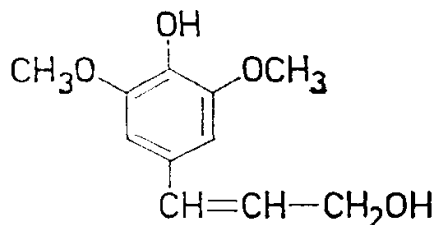
2-Methoxy-1-nitrobenzen
2-Nitroanisol
F.9°C, Kp.275°C, D.1,249



3-Methoxy-1-nitrobenzen
3-Nitroanisol
F.33°C, Kp.265°C



4-Methoxy-1-nitrobenzen
4-Nitroanisol
F.51°C, Kp.260°C



3-(4-Hydroxy-3,5-dimethoxy-phenyl)-prop-2-en-1-ol
Sinapinalkohol